

COMPARISON OF THE DEVONIAN ROCKS OF
ILLINOIS AND MISSOURI

T. E. SAVAGE, UNIVERSITY OF ILLINOIS

ABSTRACT

Certain areas in the states of Illinois and Missouri were parts of the same geologic province during Devonian time, and the Devonian history in these states was quite similar. In southwest Illinois and southeast Missouri the Bailey limestone of Helderbergian age has a similar development. The Oriskany limestone is represented in both areas by the Little Saline limestone, and in Illinois an older chert formation (Grassy Knob chert) of Oriskany age is also present. Onondaga strata are present in both states in the Grand Tower limestone, the lower part of which in Illinois and parts of Missouri includes the Clear Creek chert. The Lingle limestone in both states corresponds in age to the Hamilton of the New York section. The Alto formation in southwest Illinois is equivalent to some part of the Upper Devonian of New York, but no corresponding strata are present in southeastern Missouri. In central Missouri the Cooper, Mineola, and Calloway limestone are together about equivalent to the upper part of the Wapsipinicon and the Cedar Valley formations of northwest Illinois, and eastern Iowa. The Snyder Creek shale of Missouri corresponds somewhat closely with the Lime Creek shale of Iowa, but no equivalent strata are present in Illinois. The Mountain Glen shale of Illinois does not appear to be represented in Missouri.